Notebook Series -- Notebooks by Edison and Other Experimenters
Recorder and Recording Experiments -- Miscellaneous Books
Notebook, N-15-05-04

This notebook was used by George J. Werner during May 1915-August 1917. One additional entry is stamped "Dec 13 1920." At the beginning of the book are lists of experimental recordings and kinetophone films made at the Alden Street Studio in West Orange, along with data about commercial stock on hand at the studio. Subsequent entries pertain to a series of duplication experiments, some described as "for T.A.E.," with various combinations of diaphragms, speakers, and horns. These include disc-to-disc, kineto-to-disc, cylinder-to-disc, disc-to-cylinder, and cylinder-to-cylinder. Also included are notes on a series of "surface scratch" and "long distance" recording experiments performed for Edison in 1917. Some of the long-distance experiments involved the recording of various sounds in and near the laboratory yard, possibly for use as motion picture sound effects. Other entries describe an experiment for William F. Nehr that varied the speed of the recording machine; an experiment in which a dictating machine was used to record telephone calls; and a series of experimental cylinder recordings prepared for the DeForest Radio Telephone & Telegraph Co. Entries from June 1915 list all disc masters made in the studio on the "London Machine," including one recorded for Mina Miller Edison. Also included are lists of master recordings made for language lessons, with notations regarding which reproducer horn, recorder horn, recorder, and speaker were used. Two notes by Edison, one to Werner and the other to Charles T. Dally, are pasted into the book. The names and addresses of several recording artists appear at the end of the book. The front cover is labeled "I-C-S Lessons. Experiments on Duplication. Also Disc Masters Made in Studio on London Mach. [G] J Werner - Alden St. Studio, W. Orange N.J." The pages are unnumbered. Approximately 50 pages have been used.

59890
Acme Co.,
MFG. STATIONERS,
96 JOHN ST.
AND
19 PLATT ST.
NEW YORK.

Definitions of abreviations

R - Record
R* - Double Amplified Record
F - Film
K - Kitchen
U - Upstairs in Dressing Room

C13

Russian.

132A-R101	Gypsy Songs.	G.+R.	U.
133A-R102	Russian Lecture.	" "	"
134A-R103	Concert #2.	" "	"
135A-R104	Musical Clowns (1st Edition)	"	"
136A-R105	Russian Songs + Dances.	"	K
148B-R107	Czar Fedor Ivanovitch.	"	U.
152B-R109	Count of Luxenburg.	A. Record U. "	K
153B-R110	Louise of the Silk Chickie.	"	K
154A-R111	The Vestal of Fire	"	U.
170A-R112	Duet from the Opera the Jewess	"	U.
171B-R113	Aria of Eleazar From the Jewess.	"	"
172A-R114	Operette Belle Actt	"	"
173A-R115	On the Waves of Passion.	"	"
175B-R116	Brahms Hungarian Dances		K
176B-R117	Mazeppa		U.
177A-R118	Belle of Cornville.		K
178A-R119	Musical Clowns		U.
179B-R120	L. Dryzo, Story teller		"
192B-R121	Costa Colomandi		"
193B-R122	The Dog Tax		"
194B-R123	Sonzy Operette		"
195A-R124	Scenes of Gypsy Life - Part I		"
196A-R125	" " " Part III		"

197B-R126 Concert Nastia Polliakova J. R. U.
198B-R127 Scenes of Gypsy Life Part I " " "
199A-R128 Concert Polliakoff " " "
200B-R129 Workingman's Songs. " " "
203A-R130 The Hussars " " "
204B-R131 I have but what I deserve " " "
205A-R132 Scenes in the garden. " " "
206A-R133 A May night. " " "
207A-R134 Ersh Yerminikoff. " " "
149A R108 Crime + Punishment " " "
209A. R135 The Bitter Mouse " " "
210A. R136 Zigelpirtschik + Son " " "
213B R138 Lunatics Serenade " " "
215B R139 The Demon, Send a Messenger ex " " "
216B R140 By a Dark Night ex " " "
217B R141 Attack of the Tartars ex " " "
219A R142 Carmen, Gypsy song " " "
220A R143 Appearance of Torreador " " "
227 B.R137 The Tavern " " "
228A. R144 Garden in Moonlight " " "
229A. R145 Carmen, Final Scene " " "
242A. R.149 Life Guardsman Pt 1 " " "
243B R150 " " " " 2 " " "
244B. R. 151 " " " " 3 " " "
232 B? R146 Life for the Czar. Pascoal + Selva dery quartet " " "
233 B R147 Allah Verdy + Days of our life " " "

234B. R148 Roumanian Song + Romaimsky J. R. U.
237A. R152 Tango Duett from Night Express " " "
238B R153 Concert by Ad. Davidoff " " "
239B R154 " " " " " " "
240A R155 Duet from Vestal of Fire " " "
241B. R156 Trio " Night Express " " "

Experiments. #20.

2 samples on one record.

first. 1 & 20 (with carriage)

second 1 & 20 (without carriage.)

Porcupine Reg-Band.

Austrian, Italian, French, Swedish + Others.

		F.	R.	U.
81D -	Das Rote Herz.	"	"	"
94A -	Na Gorce Mont Blanc.	"	"	"
95A -	Hochstapler Einbrecher.	"	"	"
99A -	Lumpacci Vagabundus. 2 Parts.	"	"	"
100A -	Goto Jest Kinetofon Edison.	"	"	"
108A -	Der Böhmische Rekrut.	"	"	"
109A -	Opfer der Liebe.	"	"	"
110A -	Gefangen Vor Paris.	"	"	"
115A -	Faust	"	"	"
115B	Faust.	F	R	K
127A -	Heimat.	"	"	K
138A -	Das Riesenkind	"	"	U.
141B -	Fritzie Rolly + Jul Wilner.	"	"	"
156A -	Reizend	"	"	"
139A -	Hugenotten - 3 Parts	F	R	K
157A -	Abschied Landsturmen.	"	"	U.
158B -	Aida	"	"	K
159B.	Rigoletto a. Rund U	"	"	K
160A -	Mignon	"	"	K
161B -	Faust.	"	"	K
162B -	Cavalleria Rusticana.	"	"	K
163A -	Il Trovatore, La Tira.	"	"	K
164A -	Samson + Dalida.	"	"	K
165B -	Carmen.	"	"	K
166A -	Lucia Di Lammermoor.	"	"	K

167b - La Bohème.	K	F	R
168B - Il Trovatore (Final Scene)	K	"	"
169a - Mamas Liebling - 2 Parts	K	"	"
174a - Die Puppe 3 Parts	K	"	"
180B - Der Bajazzo.	K	"	"
181 a - Anno Dazumal.	U.	"	"
182B - Draga. Draga, Dragizam.	K	"	"
184a - Pusti Zavaz	U	"	"
188a - Jahnert & Bros Bugyslaire.	K	"	"
106B Besche Geister	K		
138a. Das Pfarrkind	U.	"	"
89a. "1813"	"	"	
96B. Tales of Hoffmann	"		
101a. Das Unterbrochene Standchen	"	"	"
107a. Baron Mandelbaum	"	"	
105a. Frage und Antwort	"	"	
114a. Scene de la vie Paris	"	"	
112a. Die Fledermaus 3 pts	"	"	
111 a. Wein Weib und Gesang	"	"	
118a. Swedish Lecture	"	"	
126a. Sverige du gamla du fria	"	"	
143B Der Hutschenschleuderer	"		"
144a. Solo Vortrage	"		"
145a. Madl, Denk an Die Treue.			"
146a. Hasst a Lust Soldat zu Sein			"
189B Magyar Conference (Hun. Lecture).			"

151a. Kinder im Walde	U.	R.	
201B. Chas. Cantir French Songs	"	"	5.
155 Gerettet 2 parts	"	"	"
202B Madl Chas Cantir Ger. Songs	"	"	"
235a Hum. Lieder aus der Biedermeierzeit 2 pts	"	"	"
236a. Herta der Malta Viol. Kunstler	"		"
218C Nach dem Herrenabend	"	"	
208B Das Zerbrochene Fenster	"	"	
212 B Konzert Grock & Lola	"	"	
214B Ein Kunstlerlose	"	"	

Test and Experimental subjects made at Alden St. Studio.

	M. Head – test for side lighting	F.	U. K
K-4	Ken. Head Lett + Doyle (test)	F.	U. K
	Doyle, Bush. + Lett (light test)	F.	U. K
	Lett with white hat (side light test)	F.	U. K.
	Lett – large head focus test Gyroscope Camera	F	U. K
	Lett – seated – stereoscopic test	F	U. K
	Mr. Hutchinson + A.M.K. Predelin + Bear	F	U. K.
	Steamer John Sylvester (steel gate test)	F	U K
	Test of "Dining Room Set"	F	U. K
	Mr. Hutch. + Maxwell	F	U. K.
	Crystal Lake tests	F	U. K.
	~~Piece of negative of Thos Edison's fireworks~~	~~F.~~	~~K.~~
	Negative of Humphrey's double exp. on JG	F	U K.
	2 Camera Stereo test of Chas Ed.	F.	K.
	Bob Letts Monologue "Good Bye Boys"	R* + R	F. K
K 7X	Mrs. Brooks + Young Lady	R* +	F U K
	M.R.H + Party taken in Bronx	R +	F K
K7	A lesson in Photography since 1833	R*	F. K
K 5	On the Way to Mexico		F U. K
K2	M.R.H. Portrait	R +	F K
	Bob Lett + Pirates ~~Good bye boys~~	*	F U. K
K 12	" in ~~Come back to Erin~~		F K
K 11	Lett, Doyle (Hackfacer) etc makeup test		F U. K
K 11 D	Miss Spencer	R +	F K

C313

Lecture by Humphreys (light test) F. U. ~~K~~.
K-10 Miss Clark + Lett Dancing R + F K.
Lett, Kennedy, Dunwoodie + Head (test) F. U. ~~K~~
~~K~~-9 Miss Clark singing R + F K
K-7 A Portrait of Mrs Brooks alone R + F U. ~~K~~
K-3 Portrait of Bob Lett. R + F K
K-8 Maxwell + Party (demonstration) R + F K
140 Violin Solo R K
Band Selections (direct rec) R K
Experimental Record Amp. track U.
~~Camera Stereo test~~ F K

Regular Commercial Subjects
produced in Alden St Studio

230a+b Portuguese Lecture S. R. H.
231a.B+b " Faust " " "

Regular American Stock on hand

Faust B. Record & Tilton		~~F~~ U.
Nursery Favorites A.	F	U.
Headlongs B.	F	W.

DUPLICATING EXPERIMENTS & DATA.

5/4/15.

COMBINATION FOR FULL TONE RECORD OF:
*3695-c-1 "Auntie's Chicken Dinner" by Collin & Harlan.—

DISC HORN NO. 13.
RECORDING H. NO. 3.B.
SPEAKER NO. 3.
DIAPHRAGM NO. 2.
} This seems to be O.K.

LONG TUBE USED, WITH ALL HOLES OPEN. IN 3B. HORN.

GOOD COMBINATION FOR "RIPPLING WATER" BAND.
*2509-c-

DISC HORN NO. 13.
RECORDING HORN NO. 3B.
DIAPHRAGM NO. 2.
SPEAKER NO. 1
} This sounds O.K to us.

LONG TUBE USED. ALL HOLES OPEN IN THE HORN 3B.

5/12/15

DISC TO DISC DUPLICATION.

IN WAX IT SOUND VERY GOOD WITH THIS COMBINATION.

HORN NO. 3 ON REPRODUCING MACHINE
HORN NO. 7 ON RECORDING MACHINE
SPEAKER NO. 2. WITH 37/1000 BALL IN IT.
RECORDER NO. 73. A4 WAX.

JAN. 5. 1916.

Speed Experiment for Rehr.

1st. Recording Machine running 160 R.P.M.
Disc. Mach. 80 R.P.M.

2nd Recording Machine 145 R.P.M.
Disc Mach - 80 R.P.M.

Sel. Billy Murray.
Dir Barn Floating Down the Old Green River.

Recorder used. 21.
Disc Speaker used #6.
Recording Mach. Horn 7a
Disc Horn - 3.

Best results on Disc Sub. were:

1	2	3	4	5	6	7	8	9	0	
1	2	1	2	3	2	1	1	3	✓	Best.

on the letters. R. J. M. W.

3	3	1	1	Best.

3/24/16

Western Electric Phone Call Records.

Spec No 1. Phone Call #7 & W.
2 M. Recorder #7. Miller Right Wright
Disc Speaker.

Spec. No 2. Phone Call #1
(Same as above.)

Spec. No 3. Phone Call #7.
(Same as above).

Above masters 80 rev. per min made on
Commercial Dictating Machine
synchronized by geared rod with
Disc machine.

(Point Judith Light Record) DEC 13 1920

SERIAL NO. 14970 -

200 THREAD PER INCH
140 REVOLUTIONS PER MINUTE.

SHOP ORDER NO. 10,007. I33267
LABEL:-
SAN FRANCISCO LIGHT VESSEL #70. -
(WORDING)
"SAN FRANCISCO LIGHT VESSEL NO. 70" (LOUD)
(REPEAT 3 TIMES - MAXIMUM SIGNAL STRENGTH.)

"YOU ARE GETTING CLOSER" (½ LOUD)
(½ MAXIMUM - SIGNAL STRENGTH)

"YOU ARE VERY CLOSE" KEEP OFF"
(MINIMUM SIGNAL STRENGTH.) (SOFT)
MADE BY E.W. MEEKER
RECORDER NO. 234 DISTANCE FROM 7" - 24" - 24"
4 MASTERS. - 51-52-53.54 (7 times through on cylinder)

NUMBER HAVE T. MASTER BLANKS USED - 12 -
" MASTERS MADE - 51-52-53-54

UNDER DIRECTION OF MR. FRIEND, INSPECTOR OF ENGINEERING MATERIAL. U.S.N.
44 COURT ST. BROOKLYN, N.Y.
W. A. COHEN,
RADIO LABORATORY, BLDG. #5.
NAVY YARD, BROOKLYN, N.Y. C931

OCT. 12. 1915.

EXPERIMENT OF.

DUPLICATING FROM KINETO. TO DISC.

COLLEGE DAYS B. - TO - DISC.
LONDON DISC MACHINE USED.
RECORDER - NO. 73.
KINETO HORN. - 3 A. #1
DISC HORN - 7C

MADE SAME WAY AS ABOVE #2
ONLY WEAKER. COTTON IN SPEAKER.

C95J

AUG 30 1917

EXPERIMENTAL HM. CYL. RECORDER
FOR DE FOREST RADIO TELEPHONE
& TELEGRAPH CO.
1391 SEDGWICK AVENUE.
REQUISITION S.O. 5011
SPEC. SHOP ORDER NO. 8133 –
LABEL – D.F.W. POINT JUDITH LIGHT {D. E.

MASTER NO. D.

MADE BY EDW. W. MEEKER
DIRECT RECORDED.
RECORDER NO. 21
HORN 3A, VELVET EDGE.
DISTANC FROM HORN {D – 5"
E –

HM. FEED. – 140 R.P.M.
WORDING – P.J.L – 5 SEC. – P.J.L – 5 SEC – P.J.L –
2 SEC. – YOU ARE GETTING CLOSER – KEEP OFF – 2 SEC –
(& REPEAT.)

MASTER E

SAME AS D.

CYL. SERIAL NO. 13769 –

1 Knowlton Inner Bent.
3 Master Blanks.

MAY 12 1917

EXPERIMENTAL 4M. RECORDED CYL.
FOR DEFOREST RADIO TELEPHONE
& TELEGRAPH CO.
1341 SEDGWICK AVENUE,
NEW YORK, N.Y.

LABEL
D.F.W.
P.J. LIGHT
POINT JUDITH
ABC

REQUISITION S.O. 5011,
SPECIAL SHOP ORDER NO. 8125

MASTER NO. A.

MADE BY EDW. W. MEEKER,
DIRECT RECORDED.
RECORDER NO. a1
HORN 3 A, VELVET EDGE.
DISTANCE MEEKER FROM HORN 1 - 5½" 2 - 3" 3 - 4"
4.M. FEED. SPEED 140 R.P.M.
WORDING ON RECORD:- "POINT JUDITH LIGHT, (3 TIMES) — YOU ARE GETTING CLOSER, KEEP OFF." (ONCE)
REPEATED 25 TIMES

MASTER NO. ~~A~~ B

REPEATED 24 TIMES
SAME AS A. ONLY ~~REA~~ LITTLE LOUDER.

MASTER NO. C.

REPEATED 25 TIMES
SAME AS A
VOLUMN BETWEEN A + B.

CYL. SERIAL NO. 13620.

MAR 17 1917

EXPERIMENTAL 4M. RECORDED CYL.
FOR DE FOREST RADIO TELEPHONE
& TELEGRAPH CO.
1391 SEDGWICK AVENUE,
NEW YORK, N.Y.

TREMONT 4052

REQUISITION S.O. 5011.
SPECIAL SHOP ORDER 8108.

MASTER NO. 1.

MADE BY ED. MEEKER.
DIRECT RECORDED.
RECORDER NO. a1
HORN 3 a, VELVET EDGE.
DISTANCE MEEKER FROM HORN 5½"
4 M. FEED. 160 SPEED.
WORDING ON RECORD:- "POINT JUDITH LIGHT." THREE TIMES, THEN "YOU ARE GETTING CLOSER; KEEP OFF."
REPEATED 19 TIMES, 10 SECONDS APART.

MASTER NO. 2.

SHADE WEAKER THAN NO. 1, OTHERWISE ENTIRELY THE SAME. (REPEATED 18 TIME)

MASTER NO. 3.

SAME CONDITIONS AS NO. 1, ONLY MUCH SLOWER, AND EMPHATICALLY SPOKEN. (REPETED 12 TIMES)

CYL. SERIAL NO. 13544.

C990

HERBERT FRYER'S
Selections tried. JUNE 15. 1915

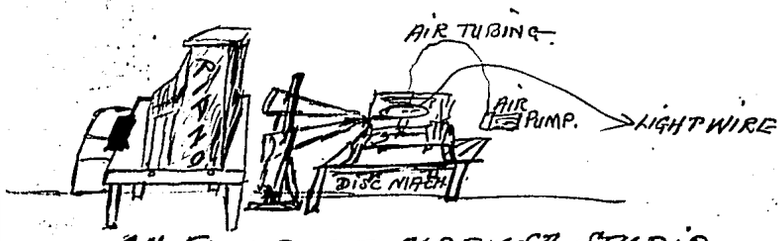
HUNTING SONG.	1	2 MASTER OF THIS.
ROMANCE IN F# SCHUMAN - OP. 28.	2	
CHOPINS FUNERAL MARCH.	3	

(G. Schirmer Publisher.)

L100

DISC MASTERS MADE
IN STUDIO ON LONDON MACHINE
SINCE JUNE 1. 1915. ALL PREVIOUS
RECORDS WILL BE FOUND IN BACK OF
CYLINDER BOOK #2 + #3.

JUNE 15. 1915.
DISC RECORD FOR MRS. EDISON.
PIANO, UPRIGHT, MASON & HAMLIN,
DELIVERED TO STUDIO JUNE 14. 1915. P.M.
TRAIL OF HERBERT FRYER.
PHONE 666 ORANGE. N.J.



ON FLOOR OF ALDEN ST. STUDIO.

PIANO STAND. 30" FROM FLOOR. TO BASE OF PIANO.
DISC MACHINE. 30." FROM FLOOR. TO TABLE TOP.
2 HORNS USED. NOS. 3 + 7.
RECORDER — 9 — REBUILT.
NO. MASTERS MADE — 1.
DELIVERED TO C.B. HAYES FOR PLATING — 6 — -15.
DISTANCE FROM BACK OF PIANO TO EDGE OF
RECORDING HORNS. = 22½".
DISTANCE FROM FLOOR TO EDGE OF HORN — 48½"

Nov 4th 1915

Dr C-S. Lesson # 1+2 French
Master # 1
Speaker Model-C-2M. Repro. Horn #3
Recorder 48 Recd. " #7a
Without Slide

Master # 2
Speaker Same as above Rep. H. " #3
Recorder 48 Recd. H. #7a
With Slide open 1st notch

French Lessons # 3 and #4
Special #1
Speaker-Model C 2m. Repro H. #3
Recorder #48 Recd. H. #7a
Slide on but closed.

Special # 2.
Same as #1 only slide open to the 1st notch.

C1031

Nov 5th 1915

I-C-S - Spanish Lessons #1 - #2
Special #1
Speaker Model C-2M. Repro H.3 R.H.7c
Insert - Limit - no slide Recorder 48

Special #2
Speaker - Same as #1 Repro H.3 R.H.7c
Insert - same as #1 Recorder 48

I-C-S - Spanish Lessons 3 & 4
Special #1
Speaker - Model C-2M. Repro H.3 R.H.7c
Insert - Limit - no slide Recorder 48
(Scratches end of Lesson #3)

Special #2
Same as #1

Nov 5th 1915

I-C-S. Spanish Lessons #5 - #6
Special #1
Speaker - Model C-2M Repro H. 3 R.H. 7c
Insert - Limit - no slide Recorder 48

Special #2.
Same as #1

Spanish Lessons #7 and #8
Special #1
Speaker - Model C-2M Repro H #3 R.H. #7c
Insert - Limit - no slide Recorder #48

Special #2.
Same as #1

Spanish Lessons #9 - #10
Specials #1
Speaker Model C-2M Repro H.3 R.H.7c
Insert - Limit - no slide Recorder 48

Special #2.
Same as #1

Nov 6th 1915

I-C-S Spanish Lessons 11-12
Speaker - Model C-2M Repro. H 3. R #7c.
Insert - All wax no slide Recorder 48

Special #2 same as #1

I-C-S. Spanish Lessons 13-14
Special #1 Same as above.
" #2 " " "

I-C-S Spanish Lessons 15-16
Special #1 Same as above
" #2 " " "

Nov 8th 1915

I-C-S. Spanish Lessons 17-18
Same as above Special #1
" " " " #2

Lessons 19-20
Special #1 Same as above
" #2 " " "

Lessons 21-22
Special #1 Same as above
" #2 " " "

Lessons 23-24 Special 1-2 Same as above
" 25 " 1-2 " " "

Nov 9th 1915

I-C-S. French Lessons 5-6
Specials #1 and 2 same as Spanish.

I-C-S. French Lessons 7-8
Specials #1-2 same as above.

I-C-S. French Lessons 9-10
Specials #1-2 same as above

I-C-S. French Lessons 11-12
Special #1-2 same as above only Repro. machine slowed down on #12 to 14 revolutions every 10 seconds as original 2 min sub. was taken at slow speed.

I-C-S French Lessons 13-14
Specials 1-2 Same as 9-10

I-C-S French Readers 1-2
Specials 1-2. owing to machine sounding slow and fast we were compelled to slow up on Reader #1 and speed up on Reader #2, but only a trifle in both cases.

Nov 9th 1915

9-6-S. French Lesson #30
~~Special #1 made with same Recorder~~
~~as previous lessons but reading~~
~~machine run slower #2 made~~
~~at 90 revolutions~~ Nov 10th 1915

9-6-S- French Lesson 15 Special 1-2
Made same as 9-10.

9-6-S-French Lessons 16-17-18-19 Special 1-2
Made same as above.

9-6-S. French Lessons 20-21-22-23 Specials-1-2
made same as above.

9-6-S. French Lessons 24-25-26-27 Specials 1-2
Made same as above.

9-6-S. French Lessons 28-29-30 Specials 1-2
Made same as above.
#30 speeded down as it originally was
made very fast.

11-15-15

I-C-S. German Lessons 1-2
Specials 1-2
Speaker Model C 2 M. Repeat H. #3 R. H. 7a
Insert - Limit Recorder 48
#2 Lessons has sound like one walking in room

I-C-S. German Lessons 3-4
Specials - 1-2 - same as one.

I-C-S - German Lessons 5-6
Specials 1-2 - same as one

11-16-15

I-C-S German Lessons 7-8
Specials 1-2 made same as one
Several knocks in Lesson #7 master

I-C-S German Lessons 9-10
Special - 1 -
master of #9 developed defects which under microscope looks like many clips and cannot repeat for this reason we could make but one master
I-C-S. Spanish Lessons 5-6
Specials 1-2. made same as one

11-16-15

I-C-S German Lessons 11-12
Specials #1-#2 Made same as 9-10

I-C-S German Lessons 13-14
Specials #1-#2 Same as abve

I-C-S - German Lessons 15-16
Specials #1-2 Same as abve

11-17-15

I-C-S German Lessons 17-18-19-20
Specials 1#-2# Same as abve

I-C-S German Lessons 21-22-23-24
Specials #1-#2 Same as abve.

I-C-S German Lessons 25-26-27-28
Specials #1-#2, Same as abve

I-C-S German Lessons 29-30
Specials #1-2# same as abve

2-C-S - German Readers 1-2
Specials 1-2 same as abve
Reader #1 Master has foreign noise sounds as though several people have been holding conversation in reading room

11-23-15

I-C-S. English Lessons 3-4
Specials - 1-2 Same as other lessons.

I-C-S. English Lessons, 5-6
Specials 1-2 - Same as above.

I-C-S English Lessons 7-8
Specials 1-2 Same as above.

I-C-S English Lessons 9-10
" " " 11-12
" " " 13-14
" " " 15-16
Made same as above. Specials 1-2.

11-24-15

I-C-S English Lessons 17-18.
" " " 19-20-21-22
" " " 23-24-25-26
" " " 27-28
" " " 29-30-31
Specials 1-2 same as above.

Q-C.S. 11-29-15

Italian Lessons

#1 - #2 Specials 1 - 2.
Made same as other language.
#3 - 4 Specials 1 - 2
#5 - 6 - " 1 - 2.
7 - 8 " 1 - 2
9 - 10 " 1 - 2
11-29-15
11 - 12 - Specials 1 - 2
13 - 14 - " 1 - 2
15 " 1 - 2

Oct. 9, 1916.

Durand's Kinetophone Record for Commercial Show.

Made in Allen St. Studio 10/3/16 P.M.
by Harry E. Humphrey
Messrs. Werner & Burt recording.
3 masters made A. B. & C.
C held for extra. (mistakes in it)
A & B delivered to A. Wurth's Dept 10/3/16 P.M.

Diaphragm 6 used.
Horn #3 (Oct & Rmnd) used.
6 Jumbo Blanks used.

Tested masters with sapphire ball.
B louder than A.

Shop Order for above 8064 Special
Time was charged - 1½ days Werner & Burt.

NO. 1 EXPERIMENT SEPT. 18, 1916

DUBBING FROM CYL TO. CYL.
FROM MASTER MADE BY KENNEDY.
BLUE SUB.

LABELED - EX 1 T. a1 - 2T 77
HORNS 13+20
REG. B.A. SPEAKER.
1st. TRIAL RECORDER a1.
2nd. " " 77

NOV. 29. 1916

EXPERIMEN NO. 1 FOR T.A.E.
FROM CEL. SUB. TO DISC WAX.
CEL. SUB. NO. 5150-C-1
HONOLULU, AMERICA LOVES YOU. AFIELDS.
HORNS 13+14
RECORDER - 73
SPEAKER NO. 1
INSERT. - LIMIT.
ELBOW. - NO. 3.

EXPERIMENT NO. 2. FOR T.A.E.
FROM CEL. SUB. TO. DISC WAX.
CEL. SUB. NO. 4992-B-6
GARDEN DANCE, MARIMBA BAND.
HORNS - 13+14
RECORDER NO. 73.
SPEAKER NO. 1
ELBOW NO. 3
INSERT OUT ABOUT 2 INCHES

C121J

DEC. 8, 1916

EXPERIMENT NO. 3 FOR T.A.E.
FROM CEL. SUB. TO DISC WAX.
CEL. SUBS NOS. 5059B1 + 5017C2
HORNS 13 + 18
RECORDER NO. 20
SPEAKER NO. 1
ELBOW NO. 1
INSERT. 1st X ON LOW & DOUBLE NOTES OUT A LITTLE ON ALL.
2nd. LIMIT UNTIL FEMALE VOICE THEN X —

EXPERIMENT NO. 4. FOR T.A.E.
FROM CEL. SUB. TO DISC WAX
CEL. SUBS. NOS. 5059B1 + 5017C2
HORNS 13 + 18
RECORDER NO. 4.
SPEAKER NO. 1
ELBOW NO. 1
INSERT - SAME AS IN NO. 3.

FEB. 12, 1916

EXPERIMENT FOR W. H. MILLER.
DUB. FROM CYLINDER TO DISC.
CLY. RECORD OF MME. BERNHARDT. *35007-1
"L'AIGLON" "LA PLAINE DE WAGRAM"..
HORNS 13 CYL. 20 DISC.
RECORDER NO. 4.
BLUE AM. SPEAKER NO. A 11776.
INSERT - LIMIT.
DISC MASTER DELIVERED TO MR. MOSS 2/12/17 P.M.

SURFACE SCRATCH
RECORDING FOR T.A.E.

MAR 9 - 1917

DARK WAX NO. 1
DISC:- SURFACE EXPERIMENT #4587a
COMMERCIAL PRINT.
SPEAKER #5 — 80 R.P.M. H.13

CYLINDER:- DARK WAX BLANK (E)
2 M. FEED.
40/1000 STYLUS, H-18
RECORDER #2
160 R.P.M. DIAMETER OF DARK WAX 2 5/32".

MAR 9 - 1917

LIGHT WAX NO. 2
DISC:- SURFACE EXPERIMENT #4587a
COMMERCIAL PRINT.
SPEAKER #5 - 80 R.P.M. H13

CYLINDER:- LIGHT WAX 4M. BLANK. (E)
2 M FEED. 40/1000 STYLUS
RECORDER #2
DIAMETER OF LIGHT WAX 2 7/32"
160 R.P.M. H 18

C125]

MAR 10 1917

LIGHT WAX NO. 3
SAME AS #2 EXCEPT USED
RECORDER #2A. 40/1000 STYLUS
THIS ONE GRAPHITED BY WURTH
TO SEE IF IT STOOLS UP CUT BETTER.
HORNS 13 + 18

MAR 10 1917

DARK WAX NO. 4.
SAME AS #3 ENTIRELY.
2A RECORDER. 40/1000 STYLUS.
HORN. 18 R.M. DISC H. 13

MAR 10 1917

DARK WAX NO. 5.
DISC:- SURFACE EXPERIMENT NO. 4587 a.
COMMERCIAL PRINT.
SPEAKER NO. 5, 80 R.P.M.
HORN NO. 13
(E)
CYLINDER:- DARK WAX BLANK
2M. FEED
RECORDER NO. 2, 40/1000 STYLUS
DIAMETER OF DARK WAX 2 5/32"
80 R.P.M.
HORN NO. 18.

MAR 10 1917

LIGHT WAX NO. 6.
SAME AS NO. 5 ONLY ON LIGHT WAX.
DIAMETER 2 7/32"
(E)

MAR 12 1917

DARK WAX NO. 7
DISC. SURFACE EXPERIMENT NO. 4587 a
COMMERCIAL PRINT.
SPEAKER NO. 5 - 80 R.P.M.
HORN. 13.
(E)
CYLINDER:-
DARK WAX BLANK.
4M. FEED, .008 NEEDLE.
RECORDER NO. 2. (CHANGED TO .008 from .040)
DIAMETER DARK WAX 2 5/32".
80 R.P.M.
HORN. #18.

MAR 12 1917

(E)
LIGHT WAX NO. 8
SAME AS #7 ONLY DIFFERENCE
IN WAX.

C1273

MAR 12 1917

LIGHT WAX NO. 9. (E)

DISC :- SURFACE EXPERIMENT NO. 4587a
COMMERCIAL PRINT.
SPEAKER NO. 5 - 80 R. P. M.
HORN 13.

CYLINDER :- LIGHT WAX BLANK. (E)
HM. FEED
.008 STYLUS.
RECORDER #2.
DIAMETER OF BLANK 2 7/32"
160 R. P. M.
HORN #18.

MAR 12 1917

DARK WAX NO. 10.

DISC :- SURFACE EXPERIMENT NO. 4587a
COMMERCIAL PRINT.
SPEAKER NO. 5 - 80 R. P. M. (E)
HORN 13.

CYLINDER :- DARK WAX BLANK.
HM. FEED
.008 RECORDER NO. 77
DIAMETER OF BLANK 2 3/16"
160 R. P. M.
HORN #18.

FOR MR. EDISON. (#12) APR 3 - 1917

LONG DISTANCE RECORDING.
#30 CYLINDER REPRODUCING MACHINE
65 ft. from horn of RECORDING MACHINE
IN BUILDING #4.
KINETO HORN ON RECORDING MACHINE
KING COTTON MARCH - BAND ON REPRODUCING MACHINE.
#2A RECORDER USED.
.008 NEEDLE
80 R. P. M. RECORDING MACHINE
160 R. P. M. REPRODUCING MACHINE.
1ST. TRIAL INSIDE BUILDING #4
2ND TRIAL OUTSIDE OF BUILDING #4 ON PATH.

APR 3 - 1917

(#13)

LONG DISTANCE.
#85 RECORDER

1ST TRIAL	60 ft	INSIDE BUILDING #4
2ND "	44 "	
3RD "	34 "	
4TH. "	24 "	
5TH. "	14 "	

SAME AS ABOVE OTHERWISE.

#14. APR 11 1917

SOUNDS IN AIR, RECORDED IN LAB. YARD.
AT ABOUT 1.30 P.M.
HM. CYLINDER GRAPHITED.
.008 STYLUS IN RECORDER NO. 2.
LARGE BRASS HORN. HM. FEED
160 R.P.M. RECORDING MACHINE.

PRINCIPLE SOUNDS:-
3 TROLLEY CARS ON FIRST HALF OF CYL.
FRED OTT IN ELECTRIC AUTO PASSED IN FRONT OF HORN.
AUTO TRUCK. GASOLINE EXPRESS WAGON.
HAMMERING IN LAB.

#15 APR 11 1917

SOUNDS IN AIR, RECORDED IN LAB. YARD. 1.45 P.M.
SAME AS NO. 14 ABOVE. EXCEPTING SOUNDS

PRINCIPLE SOUNDS.
TROLLEY CAR
AUTO TRUCK & HORN
MAN WALKING IN FRONT OF HORN.
FORD AUTO IN YARD, FAIRLY CLOSE.
HAMMERING IN MACHINE SHOP OF LAB.
" ON AUTO IN YARD.
LABORATORY DOOR SLAMMED.

#16 APR 11 1917

SOUNDS IN AIR, RECORDED IN LAB. YARD. 1.50 P.M.
MECHANICALLY SAME AS #14 AND 15.

PRINCIPLE SOUNDS.
CHALIE DALLY TALKING TO MR. EDISON 70' from Horn
TROLLEY CAR PASSING LAB.
LOUD TALKING INSIDE OF CHEMICAL ROOM.
LAB. MACHINE SHOP DOOR SLAM.
MEN CUTTING STONE BACK OF GALV. BUILD.
LAB. DOOR SLAMMED.
FORD AUTO.
HAMMERING HEAVY TIMBERS IN PHONO. YARD.
TROLLEY CAR.
PUMP RUNNING BY CHEMICAL ROOM.

17. APR 11 1917

MECHANICALLY SAME AS #14 ONLY 2 P.M.
WITH .040 STYLUS IN RECORDER #7.
& 2M. FEED.

PRINCIPLE SOUNDS:-
WAGON IN STREET.
TROLLEY CAR. ABOUT 1/2 WAY OVER.
AUTO DOOR SLAMMED.
AUTO HORN ON END.

C1313

APR 18 1917

*18.

1st trial.

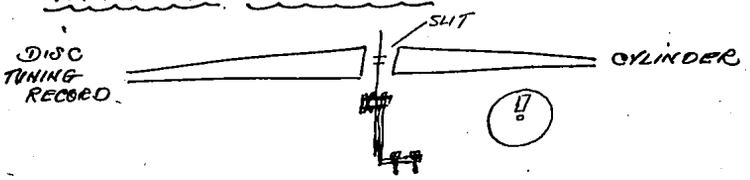
TUNING RECORDED FROM DISC RECORD TO CYLINDER.

.008 NEEDLE IN RECORDER *2A.

HORNS - 13 + 14.

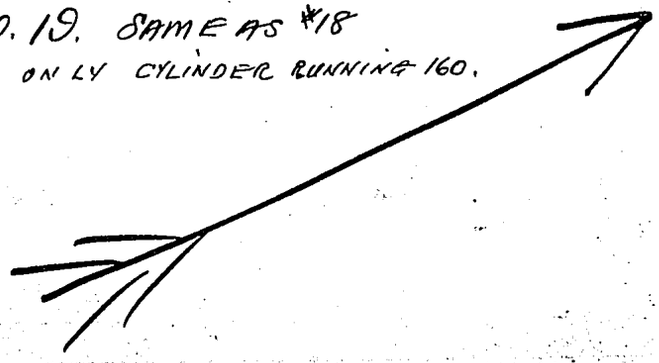
CYLINDER RUNNING 100 R.P.M.

WITHOUT SHUTTER.



2ND TRIAL
SAME AS 1ST, ONLY WITH SHUTTER.

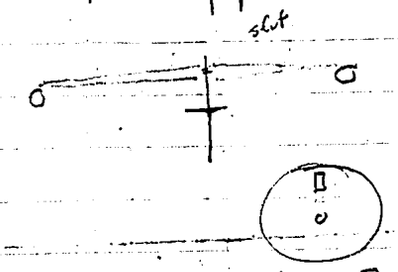
NO. 19. SAME AS *18
ONLY CYLINDER RUNNING 160.



Notes —

APR 17 1917

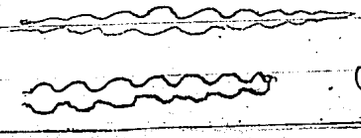
Werner — Use tuning record & duplicate it strongly on the Cylinder by your duplicating funnels



But use a shutter revolving 3 times as fast as the cylinder 480 Rev.

There is a slit near end + inch wide which lets sound for an instant pass —

I want to find if record stops instantly or continues a little after sound cut off



Thus

or

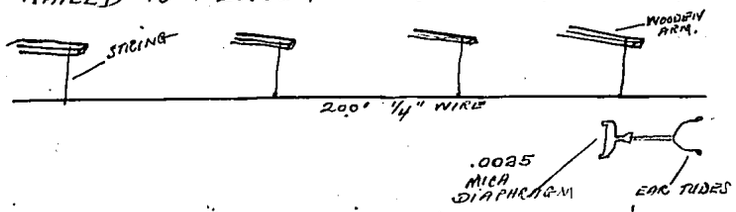
Change to Edison + record from 129

Dally - Get 200 ft No 4 ¼ mach iron wire, stretch it out on hooks hang on strings - put dia one end + use listening tubes - Scratch the other end - Cloth wound done along for 6" 3 or 4 layers use key & battery make clicks. Etc

APR 17 1917

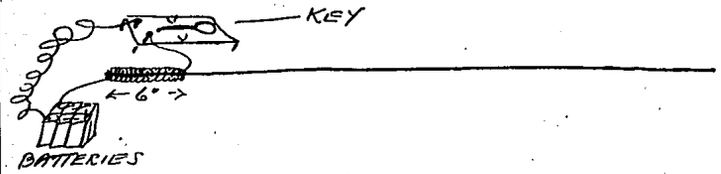
APR 23 1917

SUSPENDED 200 ft. ¼" IRON WIRE ALONG LAB. FENCE, FROM WOODEN ARMS NAILED TO FENCE. WIRE HUNG BY STRING



SCRATCHED END OF WIRE WITH ORDINARY PIN AND COULD HEAR IT VERY PLAINLY AT OTHER END. BY PLACING DIAPHRAGM WITH EAR TUBES, AGAINST OTHER END OF WIRE.

WOUND END OF ¼" WIRE WITH SINGLE COATED COTTON, .042 COPPER WIRE, 3 LAYERS, + FOR 6", CONNECTED WITH TELEGRAPH KEY + BATTERY. COULD HEAR DOTS VERY PLAINLY AT OTHER END OF WIRE, BY EAR TUBES + DIAPHRAGM.

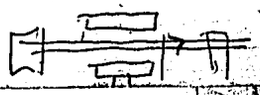


APR 27 1917

3 LAYER COIL OF .042 (SINGLE COATED COTTON) WIRE, 3/4" HOLLOW CORE.
HELD THIS COIL OVER END OF 200' ¼" IRON WIRE, CONNECTED WITH KEY + BATTERY.
DOTS PLAINLY HEARD AT OTHER END OF WIRE. THRU. DIAPHRAGM + EAR TUBES.
(¼" WIRE REMOVED FOR NEW FENCE CONSTRUCTION. 4/27/17 a.m.)
INSIDE OF COIL NOT TOUCHING ¼" WIRE.

APR 27 1917

TRIED ABOVE COIL, WITH ¼" WIRE ON THE GROUND, 6 DRY CELLS. COULD HEAR IT, BUT MUCH WEAKER THAN SUSPENDED.
1 + 2 DRY CELLS CANNOT HEAR
3, 4, 5 ABOUT SAME.
COIL NOT TOUCHING WIRE, ⊙ ⊙ CORK CENTERS IN EITHER END OF COIL WITH ¼" HOLE IN THEM.



C135

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